

Claims for Escape-Right

We claim,

- 1) (once revised) An emergency escape system comprising:
 - (a) a passenger harness,
 - (b) a cable detachably attached to the harness,
 - (c) a reel connected to the cable for storage of the cable,
 - (d) a shaft attached to the reel permitting rotation of the reel as the cable is unrolled from the reel,
 - (e) a reduction gear assembly fixed to the shaft to multiply the reel rotation rate,
 - (f) a centrifugal brake assembly attached to the reduction gear assembly,
 - (g) a housing enclosing the brake assembly,
 - (h) a mounting means fixing the housing to a point of support.
- 2) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to a prepared mounting point within a building or dwelling structure.
- 3) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to the top of a ladder positioned near an egress port of a building or dwelling structure.
- 4) (Original) The emergency escape system of claim 1 wherein the cable includes flexible attachment points spaced to accommodate multiple descents without rewinding the cable on the reel.
- 5) (Original) The emergency escape system of claim 1 wherein the shaft is detachably attached to the reel.

6) (once revised) An emergency escape system comprising:

- (a) a passenger harness,
- (b) a cable connecting to the mounting means,
- (c) a reel connected to the cable for storage of the cable,
- (d) a shaft fixed to the reel permitting rotation of the reel as the cable is unrolled from the reel,
- (e) a reduction gear assembly fixed to the shaft to multiply the reel rotation rate,
- (f) a centrifugal brake assembly attached to the reduction gear assembly,
- (g) a housing enclosing the brake assembly,
- (h) a mounting means fixing the housing to the passenger harness.

7) (Original) The emergency escape system of claim 6 wherein the mounting means is configured to attach to a prepared mounting point within a building or dwelling structure.

8) (Original) The emergency escape system of claim 1 wherein the mounting means is configured to attach to the top of a ladder positioned near an egress port of a building or dwelling structure.

9) (once revised) The escape system of claim 1 wherein the centrifugal brake assembly comprises:

- (a) a circular casing,
- (b) a circular central plate with a plurality of tabs,
- (c) a plurality of brake shoes fitted over the plurality of tabs,
- (d) a shaft connecting the central disk and piercing the casing at the center of the circular cross section of the casing to connect to a external source of rotary motion.

10) (once revised) The emergency escape system of claim 9 wherein the plurality of tabs and brake shoes consists of two tabs and two brake shoes.